



MUCH OF THE SUCCESS OF THE FINE SAFETY RECORD OF THE SHIFT SUPERINTENDENTS and Utilities Division in Y-12 are the results of discussions at safety meetings such as is shown above. From left around the table are J. L. Finchum, O. M. Blackwell, Jr., Utilities Department Superintendent; J. H. Potter, S. Kite, I. L. Hill, K. E. Russell, L. Walker, C. K. Monday, R. P. Mann, Steam Plant General Foreman; C. A. Cox, C. E. Welch, H. B. Renfro, G. H. Russell, J. D. Barnette, J. L. Chapman, F. D. Robinson, N. J. Tronolone, Jr., also a General Foreman; and D. E. Bell.

Melton Hill Facts Given To Residents

Recreational Facilities Will Be Excellent

Interesting facts and figures on the Melton Hill Dam were given recently by D. H. Mattern, head of the Water Control Division of the Tennessee Valley Authority in a talk before the Parent-Teacher's Association at Karns High School. Although construction on the \$35,000,000 combination flood-control power-producing navigation project is not scheduled to begin until 1961, there is much interest in the new dam because of the nearness of it to Oak Ridge.

The Melton Hill Dam will be located one and one-half miles upstream from the White Wing Bridge on the Clinch River. It will be 82 feet high from the bed of the river to top of the dam, which will have three spillway gates 40 by 42 feet in size.

Two generating units of 36,000 kilowatts each capacity will be installed for power producing purposes.

The navigation lock in the dam will be 75 feet wide and 400 feet long, large enough to accommodate the "mammoth" type barges now used in inland water transportation. They are 192 feet long by 35 feet wide. The net lift of the lock will range from 50 to 60 feet.

The navigation channel will extend past Clinton with a minimum depth of 11 feet. This will accommodate boats loaded to a maximum draft of nine feet. The elevation of the reservoir to be created by the new dam will be from 790 to 795 feet above sea level.

The sum of \$210,000 already has been authorized by Congress for engineering on the project and \$7,500,000 is in the TVA budget and got Congressional approval to begin work. Pending budget approval an access road along the south side of the Clinch River from the White Wing road will be started late this year.

The reservoir to be created by the Melton Hill Dam will provide excellent boating and fishing facilities right at the back door of Oak Ridge in addition to the navigational and power facilities to be offered.

WHAT A RECORD!

According to news dispatches an English woman holds the record for bigamy. By the time her career was checked at age 24, she had married 62 men in 50 towns—an average of one every 30 days.



Y-12ERS IN THE UTILITIES DEPARTMENT and at the Steam Plant are constantly on the alert for accident hazards. This picture shows a group inspecting the controls at the Steam Plant. From left are R. P. Mann, Steam Plant General Foreman; A. H. Norman, E. J. Garrett, J. D. Sweeney, R. E. Ballew, Oscar M. Blackwell, Jr., Utilities Department Superintendent; and I. J. Maples.

Shift Superintendents, Utilities Division Has Fine Accident-Prevention Mark In Plant

No Disabling Injuries Reported In 1,093,203
Hours Of Operations Through May Of This Year

Although their work provides quite a number of opportunities for accidents, the approximately 140 employees in the Y-12 Shift Superintendents and Utilities Division have established an enviable safety record over the past several years. The accident-prevention program in this division is kept at a high level under direction of Superintendent Dan H. Rader and his supervision.

Safety Department records on the division show that through May 31 of this year, the Y-12 Shift Superintendents and Utilities Division had operated for 1,093,203 man hours without a disabling injury. In addition to the Shift Superintendents Office, the division includes the Utilities and Steam Plant departments.

The most recently disabling injury in the division was recorded on May 1, 1956, more than four years ago. On that date a Utilities Department employee suffered a fractured leg. The Steam Plant's last lost time accident occurred on May 9, 1955, more than five years ago. In this mishap, an employee suffered a compound fracture of his leg.

The exceptional safety record of the division has greatly contributed to the fine overall mark of the Y-12 Plant through the years.

For the second time since Carbide took over operations here in 1947, Union Carbide Nuclear Company employees in the Y-12 Plant Area have exceeded the 5,000,000-hour mark of accident-free operations.

Safety-minded Y-12ers are hoping the accident-free period will be extended at least past the 10,000,000 mark to—

Keep those green lights of safety flashing at every portal.

First Uranium Atom Split Made In Germany In 1939

The first announcement that an atom of uranium had been split was made in January 1939, when it was revealed that two German scientists of the Kaiser Wilhelm Institute, Berlin, Otto Hahn and Fritz Strassman, had achieved that goal. Their discovery of fission was announced in the German scientific publication, Physical Science. The experience was repeated shortly afterward in laboratories in the United States and other countries.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
185 Days Or
6,121,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through June 12
Phone 7755
For Daily Report
On Accident-Free Hours

Friday Is Deadline For Returning Cards Designating Badge Location

Distribution Expected To Start About July 1
From Self-Service Racks Conveniently Located

Y-12ers are reminded that Friday, June 17, is the day their completed IBM cards, designating the portal at which they want to pick up their new badges, must be returned to the Security Department. Prompt return of the cards is necessary so that issuance of the new badges may be carried out as planned. Initial distribution of new badges is expected to start on or about July 1.

The new badges are to be distributed through self-service badge racks at each Y-12 portal. The old badges are to be turned in when the new badges are picked up. The present badges will not be honored for access to the Y-12 Plant after July 18.

Metering Device Provided

The new badges combine features of both personnel identification and monitoring as they have a metering device that provides additional information in case of a nuclear accident. The rebadging program will require the cooperation of every Y-12 employee for its successful operation.

The self-service racks, at which the new badges will be issued, are located inside the plant at the East Portal, North Portal, Biology Portal, Administration Building (9704-2), Central Portal at both the Cafeteria and Building 9212 entrances, West Portal at both the Building 9212 and G Road entrances, Bear Creek Portal, and at the Property Sales Department, River Road.

Following the initial distribution, subsequent exchanges are expected to be made every three months. This schedule will provide for exchanges on October 1 of this year, January 1, 1961, April 1, 1961.

Employees wanting their badge distribution points moved to a different portal for later badge exchanges must fill out another IBM card designating their choice of the new distribution point. Such cards will be available at pay portals, Stores, guard posts, self-service racks, and Property Sales.

Two weeks will be allowed to complete each badge exchange. Badges not picked up within the specified time will be moved to the Badge and Pass Office, Building 9704-2, from where they will be issued to employees who failed to obtain them from the self-service racks during the exchange period.

Tennessee Group Of ASQC To Hold Dinner Meeting

The annual dinner meeting of the Tennessee Section of the American Society for Quality Control will be held at the Deane Hill Country Club on Saturday, June 18 at 6:30 p.m. The program will include a nationally known speaker on Quality Control, a color film about Quality Assurance as well as other special entertainment.

Officers of the Tennessee Section for the coming year will be introduced at the meeting. The newly elected officers are Jack Riegert, of Fulton Sylphon, President; Eric Johnson, of the Y-12 Technical Division, Vice-President; Alan Lasater, Y-12 Technical Division, Treasurer; and Roberta McCutchen, Oak Ridge National Laboratory employee in the Y-12 Area, Secretary.

The dinner meeting is open to anyone interested in Quality Control. Reservations may be made by contacting Roberta McCutchen, telephone 5-3142, Oak Ridge.

National Carbon Gets AF Research Program

Tennessee To Have Research Laboratory

The United States Air Forces Air Research and Development Command through its Wright Air Development Division has awarded a \$12,000,000 three-year research and development contract on graphite for missile and space vehicle components to National Carbon Company, division of Union Carbide Corporation.

Morse G. Dial, chairman of the board and chief executive officer of Union Carbide Corporation, announced the construction of an Advanced Material Laboratory at Lawrenceburg, Tenn., where the graphite development work will be carried out. The laboratory, to be built by Union Carbide and equipped by the Air Force, will consist of a raw materials plant, a pilot processing plant, a completely equipped laboratory, and an office and services building. Because of the highly technical nature of the work, it is expected that the laboratory will employ from 50 to 75 people.

Objectives Of Program

The objectives of the research and development program are to explore raw materials and processing techniques that will: (1) significantly reduce the variation in mechanical and physical properties to about one-third of the present variation found in the best grades of graphite available today; (2) reduce the total manufacturing time for graphite from many weeks to several days; (3) achieve the foregoing objectives for pieces larger than three feet in diameter by six feet in length; and (4) develop a processing facility to produce such graphites in quantity sufficient for proper evaluation under full-scale conditions.

This program will utilize the experience foundation provided by National Carbon Company's research and development efforts during the last decade in order to develop, at an accelerated rate, a

Continued on Page 4

Radio Engineers To Hear Talk By National Lab Man

The Oak Ridge Chapter of the Professional Group on Nuclear Science of the Institute of Radio Engineers will meet in the Green Room of the Ridge Recreation Hall, located on Jackson Square in Oak Ridge, at 7:30 p.m., tomorrow, Thursday, June 16.

C. C. Harris, of Oak Ridge National Laboratory, will discuss "Recent Advances in Scanning Equipment and Medical Nuclear Instrumentation." The talk will feature a ten-minute color film showing an actual scan search, location, and surgical removal of a brain tumor, using this instrumentation.

The public is invited to attend the meeting.

The Bulletin

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NUCLEAR COMPANY
Division Of
UNION CARBIDE CORPORATION

GEORGE W. DOBBS — Editor

OFFICE

Post Office Box Y
Oak Ridge, Tenn.

Bldg. 9704-2 Room 134
Telephones 7100 - 7109

Niece Of Y-12er Presents Piano Concert At LC



Miss Donna Dunn

Miss Donna Dunn, a member of the Lenoir City High School 1960 graduating class, gave a piano recital at the high school, Monday, May 30. Donna, who is the niece and ward of Anna Bishop in the Y-12 Production Analysis Department, has been studying music for the past 11 years under Louisa Stanfield of Lenoir City.

Donna's outstanding high school record in the non-musical field also lists membership in the National Beta Club (Honor Society) her final three years of school. She maintained an A average throughout her entire school days.

She plans to enter the University of Tennessee in the fall where she is already enrolled as a candidate for a Bachelor of Music Degree.

Y-12ers With 15, 10 Years Company Service

Congratulations to the Y-12ers listed below who will complete 15 and 10 years of Company Service within the next few days.

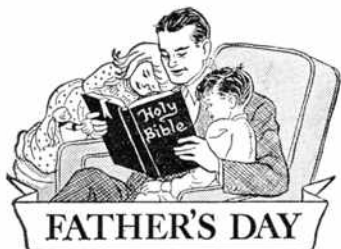
15 YEARS

John L. Waters, Engineering Division, June 18.
Helen L. Hicks, Special Testing, June 20.
Harley R. Johnson, Beta-2, June 22.

10 YEARS

Gerald W. Lankford, General Machine Shop, June 18.
Lamon B. Keith, General Machine Shop, June 19.
Robert L. Slusher, Industrial Engineering, June 19.
Willie B. Kirk, Jr., Process Maintenance, June 19.
Billy L. Miller, Graphite Shop, June 20.
Oscar W. Morris, Beta-4 Heavy Machine Shop, June 21.
Daniel C. Lashley, Buildings and Grounds, June 22.
William D. Newman, Jr., General Machine Shop, June 22.
Hugh D. Campbell, General Machine Shop, June 22.

Then there was the night club stripper who was made an honorary member of an Air Force squadron — because of her beautiful takeoffs.



Here's hoping the ole Colyum Conductor, G. W. Dobbs, found everything to his liking in St. Looie and now let's bring him up to date on the happenings in and around Polecat Ridge. First up is:

MECHANICAL OPERATIONS

Vacationers take the spotlight around the Beta 4 Heavy Machine Shop as T. Verner is off to Florida. Stay at homers include S. C. Loop, G. E. Carden, R. F. Phillips and L. P. Vines. J. F. Spradlin is going to Indian Rock, Fla. "Bossman" C. E. Hensley has returned from a week's vacation spent around home. C. W. Johnson is on two week's active duty with the National Guard. Congratulations are sent to E. B. Dyer who is the proud papa of a little girl, Debra Ann, born on June 4; little Debby weighed eight pounds and four ounces. Condolences go to C. E. Brown, whose grandmother passed away on Memorial Day.

T. R. Wall of the TW Shop, is off to Washington, D.C., on vacation. C. T. Eldridge journeyed to Florida. G. A. Grider is taking his leisure time on Douglas Lake just fishing, boating and plain loafing. J. L. Devaney is staying at home. R. M. Hetzler is doing a little painting around the house. Other stay at homers include J. B. Gooch, H. B. Thackston and L. J. Taylor. J. R. Lawley

is going to Alabama for a visit while M. F. Dukes will be on the lakes boating and skiing. There's a rumor going around that John Bishop has quit fox hunting; he decided he was not old enough. L. C. Hale and M. Q. Kosier are going after trout at Tellico. Sympathy is sent to J. A. Lane whose grandfather passed away recently. Get well wishes are sent to C. E. Jennings and G. Hyatt.

Ellen Culp, of Rolling and Forming, sends word that C. E. Rose did a little fishing while on vacation. D. E. Gilliam is in Florida—Land of the Palms—seems as if though everywhere he went he had to "cross palms" with that folding green stuff. George Ferrell is in Atlantic City as an unofficial beauty observer.

Willie Crowe, Sunflower Shop, is making a two-week grand tour of Amarillo, Tampa and Los Angeles while on vacation. Richard Dew and family are in Washington, D.C. John Neeley is spending his time off at Big Ridge State Park. Other vacationers are W. A. Norman, E. F. Litton, L. E. Pate, B. H. Samuel, T. A. Picca, F. O. Bowman, R. E. Reed, W. O. Harris, R. E. Plemons and George Wylie.

Vacationers are scattering to all different parts of the country from the General Machine Shop — E. S. Henck doing a little painting around home in Kingston. C. D. Zehner visiting his in-laws in Decatur, Ala. Staying close to home are J. H. Patrick, T. H. Coleman, R. A. Allstun, L. M. Vinson, F. T. Beaver, O. Mack, J. W. Dowell, Sr., Sam Schultz, C. L. Myers, M. L. Patterson, A. T. Sharp, T. E. Brantley, J. L. Crossno, Jr., H. F. Dick, F. A. Higginbotham, J. C. Jones, W. L. Lowry, Golman Phillips and Brownie Wyrick. Get well wishes go to T. C. Ray and C. J. Ward.



SEVERAL CHARMING YOUNG DAUGHTERS of Y-12ers took part in the coronation services for the Girls Auxiliary of the Glenwood Baptist Church recently. In front, from left, are Betty Mann, daughter of R. P. Mann, general foreman, Y-12 Steam Plant; and Linda Blevins, whose father is Archie Blevins, Production Inspection. In the rear are Wanda Blevins, also daughter of Archie Blevins, crowned queen with scepter; Linda Lawler, daughter of R. G. Lawler, Alpha Four, crowned queen regent; Cherry Blackburn, whose father is John Blackburn, Buildings and Grounds, named princess; and Judy Marlar, daughter of Charles L. Marlar, Enriched Uranium Recovery, crowned queen.

6-10119



CROWNED QUEEN REGENT, the highest step in the Girls Auxiliary of the Glenwood Baptist Church, recently was Linda Lawler, right, daughter of R. G. Lawler, Alpha Four. At left is Carolyn Brock, cape bearer; and Mrs. Robert Eason, past queen regent in charge of the coronation service.

CHEMICAL

Joette Rule, fine reporter from Colex Operations, is off to Florida for a couple of weeks. Lew Skeel is with Uncle Sam for a reserve stint at Fort Campbell, Ky. Stay at home vacationers are Gene Stooksbury and H. D. Bozeman. Mike Jordan is returning to the University of Florida while Tom Pell is welcomed for another stint of co-opping. A. S. Peterson is seeing the sights in Washington.

Continued on Page 4

Brother Of Y-12er Was Member Of Sub Crews Making Historic Voyages For United States

CPO Lamar Williams Aboard Nautilus, Triton

Two memorable voyages on history-making United States Navy atomic-powered submarines is the privilege—and honor—of a brother of Y-12er Van Williams, of Research Services. The seagoing kinsman of the Y-12er is Chief Petty Officer Lamar C. Williams, who was a member of the crew of the USS Nautilus, which in August, 1958, journeyed under the North Pole from the Pacific to the Atlantic Ocean; and of the USS Triton, the world's biggest submarine that encircled the world while submerged earlier this year. Both submarines are atomic-powered.

Y-12er Receives Certificate

Y-12er Van Williams is the proud possessor of a certificate sent by brother Lamar after the Triton voyage. It is signed by U. S. Navy Capt. Edward L. Beach, commanding officer of the giant submarine. It is headed "Hail, Noble Captain, It Is Done Again" and reads in full: "This certificate is commemorative of the first submerged circumnavigation of the world. It is sent to you by the submariner whose signature appears below. A member of the Triton's ship's company, he participated in this historic voyage.

"Triton, world's largest submarine, is powered by twin nuclear reactors designed by the Knolls Atomic Power Laboratory which is operated for the United States Government by General Electric Company. Keel was laid 29 May 1956, and was launched 19 August 1958; commissioned at the Electric Boat Division of the General Dynamics Corporation, Groton, Conn., on 10 November 1959.

"Triton took departure from New London, Conn., on 16 February 1960 and returned in May 1960 after a



NAVAL CPO LAMAR C. WILLIAMS, RIGHT, BROTHER OF A Y-12er, is shown receiving a coveted decoration from Com. William Robert Anderson, of the USS Nautilus, the atomic-powered submarine that made the first voyage under the North Pole. The pin at the top of the other decorations on CPO Williams, was for knowing all about parts and their functions on a submarine. In addition to his voyage on the Nautilus, CPO Williams was a member of the crew of USS Triton, the world's largest submarine, that completed a 36,000-mile voyage around the world while submerged. The Y-12 brother of the submariner is Van Williams, Research Services.

submerged non-stop voyage of more than 36,000 miles."

Five Of Seven In Service

Lamar Williams is one of seven brothers, five of whom have had long military careers. The submariner himself has been in the Navy for 17 years. Two other brothers have completed Navy enlistments, one was in the Army and Y-12er Van Williams did his stint in the Air Force.

Honor of serving on the Triton is not the only distinction earned by Chief Lamar Williams—as the noted under-the-ice trip of the Nautilus also marked a milestone

in Naval submarine history. The commander on this voyage was a Tennessean — Com. William Robert Anderson, of Waverly. At the completion of the voyage of the Nautilus Commander Anderson decorated Chief Williams with a pin in acknowledgment of his knowledge of knowing all parts and their functions of a submarine (see picture with this story).

Chief Williams was born in Clanton, Ala., where some members of the family still reside. The naval chief petty officer now is married and lives with his wife and two children at Gales Ferry, Conn.



Get well wishes are extended Y-12 employees listed below as patients in Oak Ridge and Knoxville hospitals last week:

OAK RIDGE

Goebel Hoskins, O. A. Lynch and H. E. Barger, Guard; C. F. Keylon and Wayne Rogers, Buildings and Grounds; N. L. Ensor, Property; L. W. Albright and R. D. Hayes, Production Inspection; C. J. Beckett and J. B. Gray, Mechanical; A. D. Douglas, Process Maintenance; W. A. Wigginton, Product Processing; V. A. Stanley, Research Services; H. A. Lay, Colex Auxiliary Operations.

ST. MARY'S

Harold Bolinger, Sunflower Shop; T. P. Sprague, Development Operations; C. L. Ramsey, General Machine Shop; Aubrey Jeffers, Guard.

UNIVERSITY

Ulis Wallace, Sunflower Shop; Eddie Johnson, Maintenance Automobile Equipment.

FORT SANDERS

Nell Mercer, Production Assay.

Rides Wanted, Offered

Ride wanted or will join car pool from West Haven Village, Knoxville to East or North Portal, straight day. R. D. Satterfield, plant phone 7-8254, home phone Knoxville 3-5243.

Ride wanted from Glendale Lane in Oak Ridge to North or Central Portal, straight day. Carol Thompson, plant phone 7-8241, home phone 5-3116.

Ride wanted or will join car pool from Devon Drive, Halls Heights, Halls Crossroad to West Portal, C Shift. M. W. Oldham, plant phone 7-8484.

Ride wanted from Pleasant Ridge area in Knoxville to North Portal, 3 p.m. to 11:30 p.m. shift. Gene Price, plant phone 7103, home phone Knoxville 2-5037.



SEVERAL WIVES OF Y-12ERS AND ORNL EMPLOYEES in the Y-12 Area rolled in the Early Girly League of Oak Ridge women bowlers during the recent season. Some individual winners of seasonal honors are shown above. From left are Billie Butters, wife of Gordon Butters, Beryllium Fabrication, who had the high scratch game of the season; Gladys Pitt, whose husband is Don Pitt, General Machine Shop, high scratch series; Beverly Hoffman, wife of E. E. Hoffman, ORNL, high handicap series; Billie Gilstrap, wife of Ed Gilstrap, Sunflower Shop, most improved; Maxine Jernigan, whose husband is Joe Jernigan, of the ORNL photographic section in Y-12, high handicap game.



THREE MEMBERS OF THE WINNING TEAM IN THE EARLY GIRLY LEAGUE of Oak Ridge women bowlers last season were wives of Y-12ers. From left they are Gladys Pitt, wife of Don Pitt, General Machine Shop; Nan McLemore; Lou Sahr, whose husband is Bill Sahr, Beta Four Heavy Machine Shop; and Billie Butters, wife of Gordon Butters, Beryllium Fabrication.



THE HIGH HANDICAP game scorer in the Early Girly League of Oak Ridge women bowlers was Maxine Jernigan, above. She is the wife of Joe Jernigan, of the ORNL photographic section in the Y-12 Plant.

Wildlife Food Production Boosted

As the result of a stepped-up food production program by the State Game and Fish Commission, the wildlife of the Central Peninsula Wildlife Management Area may soon enjoy a better balanced bill of fare, according to Larry Safley, commission game biologist. Under the new food program for the Peninsula, some 400 acres annually are being planted to permanent-type pasture as a supplemental food supply for deer, turkey and grouse which use the fringe areas of such plantings. Safley said that in addition to the pasture-type development, the present plans call for up

Whiz Kids Romp In Softy Loop

The tough Y-12 Whiz Kids remained undefeated in the Carbide Fast Pitch Softball League last week by winning a fine 1 to 0 game over a good Oak Ridge National Laboratory outfit and later defeated the Fat Boys in a loosely played game by 17 to 6. Against the ORNL team, Ernie Collins tossed a one-hitter, while striking out 14 batters. The lone hit was a bunt single by Jack Addison in the fourth inning. The Whiz Kids managed three hits off Spangler with Forrester slamming out two of the three bingles.

The Y-12 Atoms defeated the Fat Boys in a good game by 5 to 2. Sise, the Fat Boys' chunker, and Smith, twirler for the Atoms, engaged in a fine duel with Smith striking out nine and Sise whiffing 11.

Line scores and league standing follows:

Team	R	H	E
Fat Boys	2	6	3
Atoms	5	7	1
Fat Boys	6	10	3
Whiz Kids	17	11	2
Whiz Kids	1	3	0
X-10	0	1	2

Team	W	L
Whiz Kids	5	0
D Shift	1	0
Atoms	3	1
Shift Three	1	1
X-10	2	3
Fat Boys	1	3

to 1,500 acres of browse improvement each year.

The 27,000-acre Central Peninsula Management Area is managed jointly by the State Forestry Department and the Game and Fish Commission for the production of both timber and game. Safley said that a forest and wildlife survey recently completed by the two agencies revealed that 9,000 acres were best suited for wildlife production with the balance to be utilized primarily for timber.

Golf Tourney Set June 25

Starting Times Open At 7:30 A.M., June 16

Y-12 golfing enthusiasts may begin filing their bids for starting times in the Maryville tournament tomorrow morning, Thursday, June 16, at 7:30 a.m., at the Recreation Department, Room 132-A, Bldg. 9704-2, plant phone 7109.

The tourney is scheduled to be held on Saturday, June 25, at the Green Meadow links.

Y-12 golfers are reminded that only one member of a foursome need apply for starting time for the entire group. Only foursomes and threesomes will be allowed to enter, with foursomes being preferred for the tournament.

The first tee-off time for the competition will be at 6:30 a.m. At seven-minute intervals thereafter, groups will begin play until 10:30 a.m.

From the interest shown in previous Y-12 tournaments this season, another big crowd of divot diggers is expected to turn out for the Maryville event.

Report 20 Minutes Early

To insure smooth operations at the Maryville event, all golfers are urged to report at the starter's table not less than 20 minutes before their scheduled starting time. When on the course, all entrants are urged to observe rules of golf etiquette, particularly on keeping moving and not blocking play of golfers behind them. All divots must be replaced on fairways and ball marks on the greens must be smoothed before proceeding.

The greens fee for the Maryville tournament will be \$3.

Only tournament play, 18 holes, will be allowed.

Bowles-Koontz Widen LC Lead

The golfing duo of Clyde Bowles and Larry Koontz raised their lead in the Lenoir City Golf League for the week of June 6 by three and one-half points by whitewashing the team of E. Kennedy and A. Ludlow. Other whitewash wins were turned in by S. Schultz-C. Day with Rogers substituting for the latter over C. Spradlin-C. Knowles; and W. Collins-L. Watson over L. B. Cabe-B. J. White. Three and one-half point wins were turned in by the following: C. Harris-T. Harris over Arrowood-F. Wray; W. James-L. Kincaid over J. Thompson-E. Rogers and F. Kennedy-C. Beckett with Wray substituting for Beckett over W. Rutherford-E. Stinnett. The team of Carter-Morrison whipped Wright-Simmons by three tallies to one.

C. Harris and P. Arrowood shared low scratch honors for the week, each shooting a fine 39. Low handicap score went to R. Carter with a 32.

League standing follows:

Team	W	L
Bowles-Koontz	25 1/2	6 1/2
Collins-Watson	22	10
Thompson-Rogers	20	12
James-Kincaid	19	13
Schultz-Day	17 1/2	14 1/2
Beckett-Kennedy	17	15
Arrowood-Wray	16 1/2	15 1/2
C. Harris-T. Harris	15 1/2	16 1/2
Cabe-White	13 1/2	18 1/2
Carter-Morrison	12 1/2	19 1/2
Rutherford-Stinnett	12	20
Wright-Simmons	12	20
Kennedy-Ludlow	12	20
Spradlin-Knowles	7 1/2	24 1/2

Horseshoe League Meet Set June 16

The popular sport of horseshoe pitching will be renewed in the Y-12 Plant this year as an organizational meeting of the league will be held on Thursday night, June 16. The meeting will be at 6:45 p.m. at the horseshoe pitching courts located near Jackson Square in Oak Ridge.

All interested Y-12ers are urged to attend the meeting.



DOUGLAS LAKE YIELDED this fine crappie to Y-12er Sam McClanahan, of Enriched Uranium Recovery. A Tennessee Jig lure was used to catch the fish, a strong contender for top honors in the Y-12 Annual Fishing Contest.

Hendrix-Sawyer Tops In Knox Loop

Sawyer and Hendrix maintained their lead in the Whittle Springs League of Y-12 golfers for the week of June 6 by winning two and one-half points from Ingle and Ball. Huskisson-Loy remained in second place in the loop by taking two and one-half tallies from Morgan-Campbell. Another two and one-half point victory was turned in by McNew-Cunningham over Miller-Burrows.

A three point win was turned in by Galle-Troutman over Abele-Cook. The teams of Norris-Bishop and Kovach-Marrow won three points the easy way, via forfeit. In other action of the week, the Schappel brothers won two points from Ratliff-Brown.

E. L. Hendrix had the low scratch score of the week, a fine 36. Cunningham, Hendrix and Burrus share low handicap honors each shooting a 34. Sawyer-Hendrix had both scratch and handicap honors with 74 and 70.

League standing follows:

Team	W	L
Sawyer-Hendrix	13 1/2	1 1/2
Huskisson-Loy	12 1/2	2 1/2
McNew-Cunningham	11	4
Galle-Troutman	10 1/2	4 1/2
Ingle-Ball	10	5
Abele-Cook	9 1/2	5 1/2
Miller-Burrows	9 1/2	5 1/2
Morgan-Campbell	9	6
Sherrod-Bolinger	8 1/2	6 1/2
Schappel-Schappel	7 1/2	7 1/2
Wyrick-Wilburn	7 1/2	7 1/2
Norris-Bishop	5	10
Ratliff-Brown	4	11
Kovach-Marrow	3	12

Gambill-Hamby First In Ridge Loop

Gambill-Hamby took over undisputed possession of first place in the Oak Ridge Golf League for Y-12ers last week by winning six points from Ratjen-Davis. Other six-point wins included Underwood-Mathews over Smith-Bartholomew; Emlet-Hines over Burkhardt-Youngblood; Dehoney-Orrison over Holzknecht-Peckman; Bailey-Stout over Kurtz-Gregory while Mee and McLendon took six the easy way via a bye. Kahley-Everitt took five from Belvin-Hopkins and four-point wins were posted by Hill-Hoppe over Cloyd-Hackett; Boyd-Oliphant over Brown-Roberts; Mitchell-Tibbatts over True-Earley and Thomson-Bremner over Wallace-Patterson.

Art Hines and Ed Gambill tied for low scratch honors, each shooting a fine 38 while Dick Dehoney took low handicap with a 32.

League standing follows:

Team	W	L
Gambill-Hamby	39	9
Hill-Hoppe	34	14
Smith-Bartholomew	33	15
Brown-Roberts	31	17
Mee-McLendon	30	18
Underwood-Mathews	30	18
Holzknecht-Peckman	29	19
Belvin-Hopkins	28	20
Boyd-Oliphant	27	21
Emlet-Hines	27	21
Ratjen-Davis	26	22
Mitchell-Tibbatts	26	22
Wallace-Patterson	25	23
Dehoney-Orrison	24	24
Kahley-Everitt	23	25
Cloyd-Hackett	22	26
Thomson-Bremner	20	28
Burkhart-Youngblood	19	29
Gregory-Kurtz	12	36
True-Earley	12	36
Bailey-Stout	11	37

Blooper Loop Action Heavy

Kentucky Wonders Annex Eighth Win

The Kentucky Wonders from the Oak Ridge Gaseous Diffusion Plant remain undefeated in the Carbide Slow Pitch Softball League as of last week by walloping the Y-12 Yankees by 22 to 2, whipping the Odds 'n Ends by 9 to 7 and finally beating Development 34 to 1.

The Y-12 Red Devils did alright last week by winning over the Eagles by 15 to 11, beating the Yankees by 23 to 12, trouncing the Payolas by 19 to 12 before losing to D Shift by 10 to 5.

Other games of the week found the Yankees on a hitting binge and winning over the Dodgems by 28 to 6, Process Engineering took a 38 to 9 win over the Payolas and a 37 to 7 victory from the 9215ers.

Heavy hitting featured most of the games with the Process Engineers taking high honors by scoring 38 runs in their contest with the Payolas. The Engineers banged out 35 hits during the affair.

Scores and league standing follows:

Team	R	H	E
Kentucky Wonders	22	20	3
Yankees	2	10	7
Kentucky Wonders	34	28	1
Development	1	9	12
Payolas	12	12	5
Red Devils	19	18	4
Eagles	11	15	3
Red Devils	15	17	2
Payolas	9	10	11
Process Engineering	38	35	5
Dodgems	6	11	8
Yankees	28	27	2
Kentucky Wonders	9	12	6
Odds 'n Ends	7	9	5

Team	W	L
Kentucky Wonders	8	0
D Shift	4	1
Process Engineers	5	1
Red Devils	5	2
Eagles	3	3
9215ers	2	3
Y-12 Yankees	2	4
Development	1	3
Odds 'n Ends	1	4
Payolas	1	6
Dodgems	0	5

First Spot Tied In Harriman Loop

Isham-Crass moved into a tie for the top rung in the Harriman Golf League for Carbide performers after the eighth round of matches by trouncing Cuneo-Grimes by a four-point margin. Henck-Lynn took three points from Patrick-Martin, enabling them to move into the first place deadlock. Whitewash wins were turned in by Brown-Buttram over Hamil-Thomas and Creswell-Winters over Tilley-Willmarth. Threa point wins were common as Pickel-O'Keefe defeated Stanley-McCoy; Webster-Franzreb over Jordan-Brown; and Sharp-Magyar over Ellis-Brown.

Low scorers were Bruce Isham with a 34 scratch and Eddie Webster with a 31 handicap.

League standing follows:

Team	W	L
Isham-Crass	23	9
Henck-Lynn	23	9
Martin-Patrick	22 1/2	9 1/2
Winters-Creswell	22	10
Buttram-Brown	18 1/2	13 1/2
Grimes-Cuneo	16 1/2	15 1/2
Tilley-Willmarth	15 1/2	16 1/2
Brown-Jordan	14	18
Thomas-Hamill	13 1/2	18 1/2
Sharp-Magyar	13	19
Webster-Franzreb	13	19
Brown-Ellis	12	20
Pickel-O'Keefe	10 1/2	21 1/2
Stanley-McCoy	7	25

Y-12 A Shift Schedules Rodeo

The Y-12 A Shift has a big fishing rodeo scheduled for tomorrow, Thursday, June 16, from 12:01 a.m. until 5 p.m. at the Andersonville Boat Dock.

Several prizes will be given away and all Y-12ers and their families are invited to attend the event.

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Continued from Page 2

D.C., while **R. E. Hackworth** chose Daytona for his vacation. . . **Ed Bell** is in Gulfport, Miss., visiting relatives. . . **C. W. Perry** is camping out during his week of vacation.

INDUSTRIAL RELATIONS

Betty Carol Thompson is welcomed to the Employment Department. . . **Loren Lawhorn**, Wage Standards, is back after a week of leisure. . . **Judy Reeves**, of Personnel Records, is taking a week of doing nothing around home. . . **Carol Trent** and husband **Bob**, are vacationing in the Sunshine State.

The Guard Department sends get well wishes to **A. J. Jeffers** in St. Mary's Hospital in Knoxville. . . Fireman **E. E. Gregory** is spending two week's military leave aboard the USS **J. P. Jones** at Newport, R. I. . . **Lt. C. S. Waldroop** and family are vacationing—camping at Pellissippi.

ENGINEERING

Mechanical Engineering says **Nora Hurst** became a proud grandmother for the eighth time when granddaughter **Patricia Ann**, nine pounds, five ounces, made her debut May 27. . . **Don Stinnett** shifted his home office to Beta-4. . . The department said their farewells and extended best wishes to **Jo Ann Sheahan** who returned to Detroit, Michigan. . . **H. E. Neeley** is spending a restful vacation camping out at Norris Lake this week. . . **Clara Hickey** and spouse entertained friends at their lodge on Eagle Point Drive, Watts Bar Lake, last week end. . . **Nora Hurst** is hostess to her aunt here from Wichita Falls, Tex., for an extended visit. . . **Tommy Swindell** spent a couple of days last week camping in the Smokies with son **Jimmie** who is on military leave at this time. . . **Jim Bozyk** was a Virginia visitor over the weekend.

MAINTENANCE

Mechanical Maintenance sends get well wishes to **C. J. Beckett**, who is in the Oak Ridge Hospital. . . **C. M. Simcox** took that fatal step and got hitched on June 6—more news later on the wedding. . . **F. K. Booth** and family journeyed to Arizona while on vacation. . . **C. B. Newman** and the Mrs. visited their daughter in Pensacola, Fla., and also took in the sights around New Orleans recently. . . **Helen Estep** is taking her leisure time just staying around home. . . **T. R. Rucker** is on two weeks military leave at Fort Campbell, Ky.

J. C. Thomas and **R. C. Blevins**, of Electrical, are vacationing at their respective homes. . . **J. R. Parker** is touring the Tar Heel state of North Carolina while visiting friends and relatives. . . **D. L. Moore** also went to N.C. for a little fishing. . . **J. R. Carringer** cancelled any plans he had for vacation in order to stay at home and be with his son **Jerry**, who suffered a broken leg in a motor scooter accident recently—everyone hopes **Jerry** is up and around soon. . . Get well wishes are sent to **F. W. Atkinson**.

Get well wishes are sent to the son of **U. L. Alspaugh**, of Research Services, who is recuperating nicely after a recent operation. . . Condolences go to **R. H. Clary** whose grandson passed away recently.

TECHNICAL

Tell Martin, Mechanical Inspection, attended a meeting of the American Society of Lubrication Engineers in Kingsport recently. . . **Bert Searles** and family are camping out at Myrtle Beach while on vacation. . . **John Pate** and family enjoyed having his wife's mother, Mrs. **A. J. Showan** of LaFollette for a week's visit recently.

E. T. Creech, of Special Testing, is trying out his new boat while on vacation. . . **Jackie Lyons** is going to Athens, Alabama, for her annual cotton picking contest. . . **L. D. Keele** is going to West Tennessee on a fishing trip while **L. D. Brown** is staying close to home.

FINANCE AND MATERIALS

Bobbie Hill, of F and M, writes that **Marshall Puckett, Jr.**, of Shelbyville, Ky., is visiting his "Aunt Emma" Puckett of Plant Records for several weeks this summer. . . **Helen Cunningham** is taking her vacation at home in Oak Ridge with a side trip over to Maryville.

C. W. Smith, of the Mail Department, is working on his new house over in Hardin Valley while on vacation.

Pearl Lindsay, of Reproduction and husband **Sam**, of the General Machine Shop, are vacationing in Sarasota, Fla. . . while **Pete White** took off for Orlando.

Geraldine Watson, of the Property Department and husband **Lewis** of Mechanical Operations, went on an outing recently to Roane County Park where Geraldine won a Coleman stove for catching the largest lunger of the day. . . **Beverly Domer** and husband, **Ron**, went to the Smoky Mts. for a recent outing. . . The department is happy to hear that **Noah Ensor** is recuperating nicely after a recent accident.

J. B. Sykes, of F and M Administration, is vacationing at Kingston—just taking it easy fishing, swimming and picnicking with his two boys who are home for the summer from Castle Heights Military Academy.

Material Control has three folks on vacation—**W. L. McKinstry**, **Martha Arp** and **B. N. Strunk**.

SHIFT SUPERINTENDENTS AND UTILITIES

D. H. Rader, Jr., is vacationing in the fine state of West Virginia. . . **F. D. Bender** meandered to Daytona Beach. . . **D. W. Harrigan** is undecided as to where he will spend his vacation—either St. Louis or Gatlinburg. . . **Philip S. Wende** is welcomed back to the Utility Department as a summer employee.

Corrosion Engineers Meet Set Wednesday, June 15

The East Tennessee Section of the National Association of Corrosion Engineers will hold a meeting tonight, Wednesday, June 15, at 8:00 p.m., in Room 18, in the Oak Ridge Institute of Nuclear Studies Training Building, located on Laboratory Road. A film will be shown entitled "Corrosion In Action" by the International Nickel Company. A panel discussion will follow the film.

Top twins—courtesy, carefulness.



AN IMPORTANT PHASE OF CIVIL DEFENSE WORK DURING ANY EMERGENCY is the rescue services. Arthur Ogden, of the Y-12 Buildings and Grounds Department, left, is the veteran chief of rescue services in the Oak Ridge Civil Defense organization. He is shown instructing a group of Oak Ridge women in rescue activities. The women, from left, are **Ida Marlow**, **Louise Phelps**, **Helen Freeman**, **Barbara Justus**, **Mable Emch**, **Sylvia Champion** and **Frances Benton**.



CIVIL DEFENSE COMMUNICATIONS during the May 3-5 Operation Alert 1960 were an important factor in the exercise. **Fran Willie**, left, of the Y-12 Contract Administration Department, is chief of the headquarters services and is shown with **Sylvia Champion** and **Norma Taylor** typing and numbering messages and keeping a log of all messages.

National Carbon Gets AF Research Program

Continued from Page 1

series of advanced new types of graphite and graphite-based materials tailored to meet the requirements of missile and space vehicles. Uses for such materials include rocket nozzles, nose cones, leading edges and other "hot spot" applications, all of which are critical areas in astronautical vehicles.

Strongest For Weight

At temperatures higher than 2700 degrees Fahrenheit, graphite is stronger for its weight than any other known material, and its strength increases up to approximately 4500 degrees Fahrenheit. It does not have a melting point as do most materials but sublimates (goes from a solid to a gas) at approximately 6600 degrees Fahrenheit. Astronautic applications place more demanding and exacting requirements on graphite materials than industrial uses, and presently available grades of graphite can not meet these requirements to the satisfaction of missile and space vehicle designers.

Missile design problems are complicated by the fact that seldom are identical materials properties required in any two applications. Some call for high thermal conductivity, others for low. Thermal shock resistance is critical in some applications, whereas strength at high temperatures is essential in others. Oxidation resistance is sometimes unimportant during a 15-second operating life, while in other components resistance to oxidation at 6000 degrees Fahrenheit is demanded for as long as 30 minutes.

Study Materials And Processing

In tackling the job, National Carbon Company will evaluate the latest concepts of graphite processing, including the preparation of raw materials. Coatings, composites, and laminates will all be thoroughly investigated at National Carbon.

According to **William H. Feathers**, president of National Carbon Company, development work on the Air Force contract will be conducted at National Carbon Company labora-



OAK RIDGE MAYOR **A. K. BISSELL**, a Y-12er in SS Control, is shown receiving a simulated report from Civil Defense Director **George Miller** about the theoretical location and condition of Oak Ridge evacuees following the Operation Alert 1960 exercises.

MIT Professor To Speak At Friday Seminar Meet

R. J. Blin-Stoyle, of the Massachusetts Institute of Technology, will speak at the seminar of the Physics Division of the Oak Ridge National Laboratory on Friday afternoon of this week, June 17. The meeting will be at 3:15 p.m. in the auditorium of Bldg. 4500, ORNL. The discussion subject will be "Parity Non-Conservation in Low Energy Nuclear Physics."

Dance-Timers Mark Special Anniversary

The Dance-Timers will celebrate their fifth anniversary with a special dance tomorrow, Thursday, June 16, starting at 8:30 p.m. in the Coral Room at the Ridge Recreation Hall. Music for the affair will be furnished by **Bill Pollack**.

Y-12er **Ernie Lewis** is president of the organization.

tories at Fostoria, Ohio, and Niagara Falls, N. Y., until the new facilities at Lawrenceburg are ready in approximately a year.

Y-12ers Active In Operation Alert Of 1960

When Civil Defense Operation Alert 1960 was observed in Oak Ridge recently, a number of Y-12ers had important roles in the simulated reaction to an imaginary thermo-nuclear attack on the city. Altogether, 90 volunteers participated in observance of the alert in Oak Ridge with an additional 270 persons responding to telephone mobilization tests.

Bissell Prepared Talk

Oak Ridge Mayor **A. K. Bissell**, a Y-12er in the SS Control Department, in a prepared and taped talk was on Radio Station WATO over the Conelrad frequency employed during the Operation Alert. He was in close touch with all of the problems faced by the Civil Defense group.

In the important phase of communications, **Fran Willie**, Contract Administration Engineering Department, was chief of headquarters services. A total of 161 official radio messages of various lengths were handled during the exercise. These included 39 incoming messages, 137 outgoing originating in Oak Ridge and 12 incoming and 12 outgoing relays. Oak Ridge CD forces were in touch with centers at Rockwood, Jellico, Sweetwater and Oneida. Radio contact also was maintained during most of the Operation Alert with Region No. 3 Civil Defense Administration headquarters at Thomasville, Ga.

Rescue Services Active

Also active in the exercise was the rescue services under **Art Ogden**, of the Y-12 Buildings and Grounds Department and a veteran in Civil Defense circles.

Other organizations taking part in Oak Ridge Operation Alert 1960 Community Disaster Plan included the Civil Air Patrol, Oak Ridge Chapter of the American Red Cross, Anderson County Rescue Squad, Oak Ridge Postoffice, Southern Bell Telephone Co. and Oak Ridge Schools.

Y-12 Safety Department Officially Confirms Record

The Y-12 Safety Department confirmed last week that the Y-12 Plant has officially concluded the 26th Safety Period of 5,000,000 man-hours. The 20-day waiting period expired May 30, 1960.

MUCH PROGRESS MADE

More progress has been made in the last 20 years in the understanding of cancer than ever before in history says the American Cancer Society. Nearly every branch of medical science is now engaged in cancer research to find new cures for the disease.